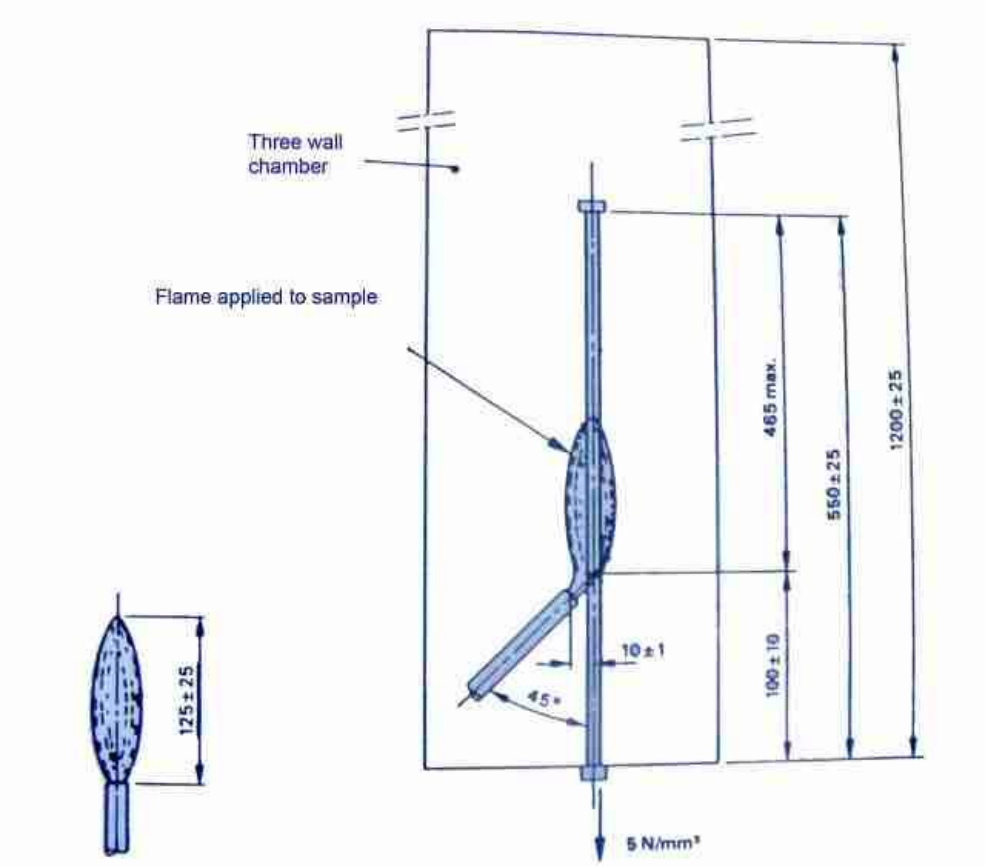
Test on electric cables on the fire conditions according to IEC 332-2

This part of IEC 332 specifies a method of testing a small insulated wire under the fire conditions when the method specified in IEC 332-1 is not suitable because some small conductors may melt during the application of the flame. The range of application recommended is for solid cupper conductors from 0,4 mm to 0,8 mm diameter and for stranded conductors from 0,1 mm^2 to 0,5 mm^2

The test sample is a piece of the finished wire or cable (600±25) mm long.
The test apparatus and arrangement are illustrated in the figure.



The ignition source is a gas burner fed with propane.

The gas flow is adjusted so that the total length of the luminous flame is (125±25) mm.

The flame is applied to sample for a maximum duration of (20±1) s. Should the conductor prematurely melt, at a time **T** less that (20±1) s, the test shell be repeated on a new sample for a duration of (T-2) s.

After all burning has ceased, the surface of the sample shall be wiped clean and the charred portion shall not have reached within 50 mm of the lower edge of the top clamp.